

Appendix

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# IRKUTSK POLYMER PLANT

## STANDARD

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**ENVIRONMENTAL AND SOCIAL MANAGEMENT AT THE  
CONSTRUCTION STAGE OF THE "IRKUTSK POLYMER PLANT"**

**ST.02.18.IZP**

**Revision 1**

**Document Datasheet**

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**Information about previous document revisions**

Revision No.	Summary of amendments as compared to the previous revision

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# 1 General Provisions

## 1.1 Document Purpose

- 1.1.1 This Standard "Environmental and social management at the construction stage of the "Irkutsk Polymer Plant" (hereinafter referred to as the Standard) is intended to implement the goal of managing risks and environmental impacts, employees involved in the construction process, as well as the local population of nearby residential areas, at the construction stage of the "Irkutsk Polymer Plant". This goal is achieved by creating an effective environmental and social management mechanism.
- 1.1.2 In order to comply with the requirements of this Standard, contractors shall develop and implement appropriate environmental and social management plans in their organizations (hereinafter referred to as ESMP).
- 1.1.3 The need for the development of the ESMP by a construction contractor is fixed by the Environmental and Social Action Plan (ESAP), approved by ООО "IPP" in compliance with the requirements of international financial institutions. The obligation of the development and execution of the ESMP by a construction contractor is fixed by an agreement with ООО "IPP" for the performance of construction and installation works.
- 1.1.4 This Standard presents the main actions and measures that ensure minimal environmental and social impact. The Framework Plan is used throughout the entire construction period.
- 1.1.5 The ESMP specifies the main mechanisms through which risk management is carried out at the construction stage.
- 1.1.6 The ESMP can be adjusted in agreement with ООО "IPP" in the event of changes in international and Russian legislation, as a result of which it may be necessary to adjust the measures stipulated by this ESMP and individual management plans (CMP).

## 1.2 Terms and Definitions

Term	Definition
Environmental aspect	an element of an organization's activity, or products, or services that can interact with the environment.
Social aspect	an element of an organization's activity, or products, or services that can interact with the social sphere.
Environmental Impact	any change in the environment, positive or negative, fully or partially resulting from the impact of the environmental aspects of the organization.
Environmental risk	the probability of occurrence of negative changes in the environment or the long-term adverse consequences of these changes resulting from a negative impact on the environment.
Plan	a set of specific tasks, a target directive program containing the main parameters necessary for management to achieve the necessary goals.

### 1.3 Abbreviations and Designations

Abbreviation	Meaning
ESMP	Environmental and social management plan
CMP	Construction management plan
ESAP	Environmental and Social Action Plan
KPI	Key performance indicators
EIA	Environmental Impact Assessment
ESIA	Environmental and Social Impact Assessment
IMS	Integrated Management System
ISO	International Organization for Standardization
FL	Fuel and lubricants
EP	Environmental protection
SS	Social sphere
OH	Occupational health
IS	Industrial safety
EPMP	Environmental Protective Measures Plan

### 1.4 Regulatory references

Document ID	Document title
-	Equator Principles (2020)
-	World Bank Environmental and Social Framework (2018)
-	Performance Standards of the International Finance Corporation (IFC) (2012)
-	World Bank/IFC Guidelines on Health, Safety and Environment, including General Guidelines and applicable industry Guidelines
-	General approaches of the Organization for Economic Cooperation and Development (OECD) (2016)
-	Japan Bank for International Cooperation (JBIC) Guidelines for Confirmation of Environmental and Social Considerations (2015)
-	Guidelines on Environmental and Social Considerations in Trade Insurance (NEXI) (2017)
-	Environmental and Social Action Plan of OOO "IPP" approved on 13.11.2020
<a href="#">No. 7-FZ dated 10.01.2002.</a>	Federal Law On Environmental Protection

<a href="#">No. 96-FZ of 04.05.1999.</a>	Federal Law On Protection of Ambient Air
<a href="#">No. 89-FZ dated 24.06.1998.</a>	Federal Law On Industrial and Consumption Waste
<a href="#">No. 74-FZ dated 03.06.2006.</a>	<a href="#">Water Code of the Russian Federation</a>
<a href="#">No. 136-FZ dated 25.10.2001.</a>	<a href="#">Land Code of the Russian Federation</a>
<a href="#">ST.04.10</a>	Customer's requirements for industrial and environmental safety and occupational health
<a href="#">St.15.10</a>	Customer's requirements for industrial and environmental safety and occupational health

Note — when using this document, it is advisable to check the validity of reference documents according to relevant directories dawn up as of January 1 of the current year and to information directories published in the current year. If a reference document has been substituted (amended), the substituting (amended) document shall be followed when using this standard. If a reference document has been cancelled with no substitution, the document, which contains a reference thereto, shall apply to the extent, which excludes this reference.

## 2 ENVIRONMENTAL AND SOCIAL MANAGEMENT

### 2.1 Implementation of ESMP

- 2.1.1 The ESMP, as well as individual plans for the areas of impact, shall be approved by the person responsible for health, safety and environment. The requirements shall be communicated to the involved structural divisions and subcontractors (if any).
- 2.1.2 The Company's environmental and social management system will be formed taking into account the requirements of international health, safety, environmental and social standards.
- 2.1.3 At the request of the Creditors of OOO "IPP" at any time, the Company shall provide reports regarding the execution of the ESMP and individual CMP with the provision of the necessary supporting documents. Representatives of the credit institution, including with the involvement of independent consultants, can optionally visit the construction site to verify the reliability of the implementation of the requirements of the ESMP and CMP.
- 2.1.4 The degree of involvement of each of the Company's employees at various levels is determined by the internal administrative documents of the Company (policies, standards, regulations, instructions, orders), as well as fixed by the job descriptions of employees. These documents must necessarily comply with the requirements of international financial institutions (which are listed in chapter 2 of this document).
- 2.1.5 In general, the responsibility for the implementation of the ESMP and the CMP lies with the head of the Company.
- 2.1.6 Apart from international requirements, provisions of the Customer's Standard [ST.04.10](#) "Customer's requirements for industrial and environmental safety and occupational health (1 class of agreement)" (rev. 11) and [ST.15.10](#) "Standard Customer's requirements for industrial and environmental safety and occupational health (2 class of agreement) (rev. 1) (hereinafter referred to as "Standards") shall be strictly followed. These Standards define the list of violations and the amount of fines that will be collected from contractors in case they violate the requirements in the field of environmental protection, labor protection, industrial safety and social sphere. The requirements of these Standards shall also be communicated to each employee of the Company in various ways (briefings, trainings, seminars, training, regular knowledge checks).

### 2.2 Environmental and social impacts and their minimization

- 2.2.1 According to ESAP, as part of detailed elaboration of ESMP, separate management plans are being developed at the construction stage, including:
- atmospheric air emissions management plan;
  - noise impact management plan;
  - soil and groundwater impact management plan;
  - water and wastewater management plan;
  - hazardous substances and materials management plan;
  - waste management plan;



- greenhouse gas emissions management plan;
  - biodiversity management plan;
  - contaminated soil management plan.
- 2.2.2 These documents include specific measures to minimize and manage impacts, responsible parties, key performance indicators (KPIs) or criteria for the implementation of these measures, as well as monitoring parameters.
- 2.2.3 The main environmental and social aspects, as well as the appendices of the ESMP (activities) aimed at managing them, are presented in tables 1 and 2.

Table 1

Main environmental aspects during the construction period

No.	Environmental aspects	Appendices of ESMP and other documents
<b>1. Atmospheric air and harmful physical effects</b>		
1.1	Air pollution by emissions of harmful substances	Air emissions and noise impact management plan Land management plan
<b>2. Soils, grounds and groundwater</b>		
2.1	Soil and groundwater pollution	Soil and groundwater impact management plan Contaminated soil management plan
<b>3. Waste Treatment</b>		
3.1	Soil contamination	Waste management plan
<b>4. Surface water bodies</b>		
4.1	Pollutant emissions	Water and wastewater management plan
4.2	Water consumption	
<b>5. Hazardous materials</b>		
5.1	Organization of safe handling of hazardous materials, including issues of their storage, transportation and use and prevention of their impact on the environment and employees	Hazardous substances and materials management plan

Table 2

Main social aspects of the construction of facilities

No.	Social aspects	Appendices of ESMP and other documents
<b>1. Interaction with stakeholders</b>		
1.1	Analysis of stakeholders and planning of interaction with them. Disclosure of information and consultation	Stakeholders Engagement Plan (if necessary)
<b>2. Working personnel and working conditions</b>		

No.	Social aspects	Appendices of ESMP and other documents
2.1	Personnel management, non-discrimination and equality of opportunities. Health and safety	Personnel and working conditions management plan Code of Conduct for employees on the sites Policy of Non-Discrimination in the workplace ((or inclusion of the principle of non-discrimination in the Company's internal regulations)
2.2	Employee accommodation services	Workforce accommodation temporary facilities management plan during the construction stage
<b>3. Protection of public health and safety</b>		
3.1	Transport Safety. Use of public roads	Traffic flow management plan
<b>4. Cultural heritage</b>		
4.1	Protection of cultural heritage	Random finds handling procedure

2.2.4 Detailed measures for environmental and social management and monitoring, responsible parties, key performance indicators for the implementation of these measures are given in the relevant thematic CMPs.

**2.3 ESMP follow-up**

2.3.1 Organization of monitoring of impacts at the construction stage of the IPP is provided as follows:

- step 1: given the relationships in the “source — impact path — recipient” system, the monitoring requirements for each major activity at the operational stage shall be determined within the framework of the ESIA, commensurate with the following factors:
  - scope and nature of the activity;
  - estimated potential level of impact (taking into account uncertainty);
  - the sensitivity of the local environment in the area affected by this type of activity.
- step 2: monitoring programs are formed in full accordance with the principles developed in step 1. The above approach ensures the development of monitoring plans that meet:
  - the requirements for managing the potential impact of construction during each type of works and at each production site;
  - requirements of the Russian supervisory authorities in the field of environmental protection and sanitary and epidemiological welfare of the population;
  - requirements of international financial organizations based on international principles of environmental impact assessment.

2.3.2 The Company provides regular monitoring and control of activities in the field of compliance with the requirements of environmental protection, labor protection, industrial safety and social sphere. The procedure for organizing and conducting audits and inspections is determined by internal documents and Customer requirements.

2.3.3 The types of inspections and audits are presented in table 3.

Table 3

Types of inspections and audits

No.	Type of inspection	Frequency
<b>INTERNAL AUDITS AND INSPECTIONS</b>		
A1	<b>Audits of the Integrated Management System.</b> These audits are conducted in order to analyze the relevance and effectiveness of the Company's procedures and management plans, to assess the overall compliance of the IMS and its elements with the requirements of ISO 14001, <a href="#">ISO 45001</a> . Carried out by GEMONT employees (shall be appointed by Order).	An Audit Program is compiled and implemented annually. The nature and structure of the audits will be confirmed in cooperation with the IMS certification body.
A2	<b>Regular inspections,</b> inspection rounds of construction sites, interviewing employees of GEMONT and contractors, reviewing documentation and other actions within the framework of evaluating the implementation of the requirements and activities of the ESMP, as well as	Regularly and, if necessary, within the framework of current activities.

No.	Type of inspection	Frequency
	other documents containing project requirements, both by the COMPANY and contractors. Carried out by GEMONT employees.	
A3	<b>Regular inspections</b> , inspection rounds of construction sites, interviewing employees, reviewing documentation and other actions within the framework of evaluating the implementation of the requirements and activities of the ESMP, as well as other documents containing project requirements applicable to the contractor. They are carried out by employees of contractors within the framework of internal control and control of subcontractors.	Regularly and, if necessary, within the framework of current activities.
<b>EXTERNAL AUDITS</b>		
B1	<b>An audit conducted by supervisory authorities at the level of the subjects of the Russian Federation and at the federal level</b> , in order to identify the level of compliance with the requirements of Russian legislation.	Regularly in accordance with applicable requirements; extraordinary on requests.
B2	<b>Audit conducted by ООО "IPP"</b>	In accordance with the schedule or in the order of unscheduled control.
B3	<b>Audit conducted by representatives of Creditors' organizations // Consultants of Creditors // IMS certification body.</b>	The nature and structure of the audits will be confirmed within the framework of the credit documentation and the functioning of the IMS

2.3.4 The key performance indicators (KPIs) are an indicator of the effectiveness of inspections (in terms of compliance with the requirements of the ESMP and CMP). KPIs for each of the areas of the CMP are presented below for each CMP separately in the corresponding chapter of this document. Key performance indicators are quantitative or qualitative indicators used to assess performance over a certain period of time. They can be used both to assess the effectiveness of implemented management measures, and to demonstrate the improvement of efficiency in the construction process.

2.3.5 The audit of compliance with the requirements of labor legislation is carried out by external specialized organizations with the issuance of an audit opinion.

2.3.6 Monitoring and control of the state of the environment (industrial environmental monitoring and control) is carried out by independent specialized organizations with qualified experts, in accordance with approved programs and methods.

2.3.7 Within 15 working days after receiving access to the construction site, the Company shall conduct and document the results of the risk assessment of the construction process in the following areas:

- a description of all possible hazards, including emergencies;
  - possibility of employee injuries;
  - a possibility of damage to equipment, buildings and structures, utilities;
  - a possibility of emergency (fire, ignition, etc.);
  - a possibility of environment pollution (spillage of oil, fuel and lubricants, etc.).
- 2.3.8 The Customer is notified of these identified risks by sending an official letter with supporting materials (acts, photo and video materials).
- 2.3.9 Within 3 working days after receiving access to the construction site, based on the results of the identified risks, the Company is obliged to develop and approve a Safety Plan, which shall contain specific measures, responsible persons and deadlines for their implementation. The security plan shall be agreed with the Customer.
- 2.3.10 The Customer has the right to conduct inspections and audits of the Company throughout the entire construction period.
- 2.3.11 Based on the received data, the Customer forms reports for an independent consultant of the lender.
- 2.3.12 Audit and inspection schedules shall be part of the contractors' environmental and social aspects management system and agreed with OOO "IPP". The contractors submit the results of audits and inspections to the Customer as part of periodic reporting.
- 2.4 Reporting**
- 2.4.1 The Company shall provide the Customer with quarterly health, safety, environmental and social reports, in the context of each CMP.
- 2.4.2 The report contains the following information:
- development of internal regulations or their adjustment taking into account the requirements of ESMP and CMP;
  - audits/inspections carried out;
  - identified nonconformities and corrective actions taken;
  - accidents, incidents, emergencies (including information about the response and elimination of consequences, as well as corrective actions);
  - other environmental and social information necessary for the submission of reports (HSES information and information on compliance with the KPIs given in the CMP);
  - the reporting form is sent by the Customer additionally and can be adjusted in case of changes in the requirements of the regulatory framework or at the request of an independent consultant of the lender.
- 2.4.3 The Customer reports to the independent consultant of the lender independently on the basis of the data provided by the Company.

## **2.5 Training on environmental and social issues**

- 2.5.1 The Company's employees shall be trained in accordance with the legislation of the Russian Federation in the field of environmental protection, labor protection and industrial safety in all necessary areas.
- 2.5.2 The relevant training shall be documented (licenses, certificates, etc.) and provided to the Customer at its request.
- 2.5.3 In addition, all employees working on the construction site undergo a series of introductory briefings upon arrival at the construction site (re-instruction is also carried out, if this is required by law and internal regulatory requirements). Regular briefings include the following questions:
- environmental and social risks associated with construction objects;
  - procedure for filing and consideration of complaints;
  - standards of behavior (including awareness of the peculiarities of local culture, interaction with local residents);
  - general measures to prevent environmental pollution;
  - measures to control negative impacts;
  - procedures/instructions for waste and wastewater management.
- 2.5.4 When conducting on-the-job briefings for newly arrived employees, the head shall inform the main HSES requirements that correspond to this workflow.
- 2.5.5 Information about the conducted training and briefings is provided to the Customer on demand and without fail in regular reporting.

## **2.6 Individual aspect management plans**

- 2.6.1 The purpose of the development and implementation of individual management plans (hereinafter referred to as CMP) is to determine the list of measures necessary to manage risks associated with a specific area of impact during the construction of the "Irkutsk Polymer Plant" facilities (hereinafter referred to as "IPP"): impact on atmospheric air, acoustic impact, water consumption and sanitation, waste management, impact on soils and groundwater, handling of hazardous materials and substances, as well as contaminated soils.
- 2.6.2 At the construction stage, it is necessary to manage the environmental and social indicators of its economic activity. To do this, it is necessary to develop a reliable management system that corresponds to the scale and nature of economic activity, in order to promote sufficiently high and sustainable environmental and social performance indicators, as well as protection of the environment.
- 2.6.3 The CMP measures are a set of solutions aimed at ensuring environmental safety in the construction area of the IPP, at protecting nature and public health from the harmful effects of this facility at all stages of the construction process.
- 2.6.4 The need to implement this CMP is fixed by Russian and international HSE requirements.
- 2.6.5 At the stage of development of project documentation for the construction of the IPP, within the framework of the implementation of international requirements, the document "Environmental and Social Impact Assessment"

(ESIA) was developed, where the need for the implementation of these measures was fixed to the international and local community.

- 2.6.6 ООО "IPP", being a subsidiary of ООО IOC, has implemented and certified an integrated management system that combines environmental and occupational safety and health management systems according to international standards [ISO 14001:2015](#) and [ISO 45001:2018](#). Thus, all the requirements provided for by these standards apply to the contractors of IPP.
- 2.6.7 In addition to these international standards, a construction contractor shall under the terms of the contract comply with the requirements of the Standard of ООО IOC [ST.04.10](#) "Customer's requirements for industrial and environmental safety and occupational health" (rev. 11) and [ST.15.10](#) "Customer's requirements for industrial and environmental safety and occupational health" (rev. 1), which applies to all contractors.
- 2.6.8 If a subcontractor is involved, this subcontractor is also required to comply with all the requirements of international standards and internal standards of ООО IOC and ООО "IPP", which shall be specified in the contract between the contractor and the subcontractor.

### 3 Appendices

No.	Title	Form ID	Note
1	Atmospheric air quality and noise impact management plan	-	Included in this document
2	Atmospheric air quality management plan in terms of dust suppression	-	Included in this document
3	Soil and groundwater impact management plan	-	Included in this document
4	Water and wastewater management plan	-	Included in this document
5	Hazardous substances and materials management plan	-	Included in this document
6	Hazardous waste management plan	-	Included in this document
7	Greenhouse gas emissions management plan	-	Included in this document
8	Biodiversity management plan	-	Included in this document
9	Contaminated soil management plan	-	Included in this document
10	Form of the report on the implementation of the ESMP	-	Included in this document

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## Appendix 1. Atmospheric air quality and noise impact management plan

### 1 Types of environmental Impact

1.1 Information on the types of impact on atmospheric air during the construction of IPP is presented according to the data of the "Environmental and Social Impact Assessment" (ESIA) and the section "List of environmental protection measures" of the project documentation "Irkutsk Polymer Plant".

1.2 The impact on the atmospheric air in terms of the receipt of emissions of pollutants occurs from the following process operations:

- operation of construction machines and mechanisms with internal combustion engines;
- the passage of motor vehicles on the territory of the construction site;
- operation of diesel generators and compressor units;
- movement of ground masses and building materials that are sources of dust formation (sand, gravel, etc.), as well as storage of these materials on the construction site;
- welding works;
- gas cutting of metal;
- painting works;
- waterproofing works;
- refueling of construction equipment;
- mechanical processing of metal and wood;
- drilling works.

1.3 All the pollutants emitted during construction and installation works will be released into the atmosphere from fugitive sources.

1.4 During construction, the determining noise and vibration impact on the adjacent area will be exerted by the construction machinery and vehicles. The main noise sources during construction will include engines and actuators of construction machinery.

### 2 Types of environmental Impact

2.1 The key performance indicators presented in table 4 relate to the control in the field of atmospheric air quality protection and noise exposure control.



Table 4

Key performance indicators for atmospheric air quality management and noise exposure control

<i>KPI designation</i>	<i>KPI description</i>	<i>Goal/actions when the threshold level is reached</i>	<i>Data sources</i>
KPI-AN01	Cases of non-compliance with the requirements of this CMP and/or other applicable CMPs	Minimization and further improvement	See table 5
KPI-AN02	Cases of atmospheric air pollution/excess of noise and vibration levels	Minimization and further improvement	Results of Industrial Environmental Control and Monitoring

**2.2** For each KPI indicator specified in table 4, reporting information is provided to the address of OOO "IPP". The specific requirements for conducting audits to confirm the compliance of the construction process with the requirements for managing impacts and mitigating them provided for in the Air Quality and Noise Impact Management Plan are given in table 5, indicating the appropriate level of audits conducted. Table 6 shows the characteristics of monitoring.

Table 5

Management activities

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
1	ESIA, EPMP, Russian and international legislation	Minimizing the impact of emissions	Strict compliance with the work technology and procedure. The movement of vehicles according to the established scheme, the prevention of uncontrolled trips.	Y	Production control program\ inspection reports	KPI-AN01	Y	Y	Y
2	ESIA, EPMP, Russian and international legislation	Minimizing the impact of emissions	Timely technical inspection and technical repair of motor vehicles and road construction equipment in order to maintain them in good condition.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y
3	ESIA, EPMP, Russian and international legislation	Minimizing the impact of emissions	Prohibition on the operation of motor vehicles and road construction equipment with faulty and unregulated engines and on fuel that does not meet the standards.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y
4	ESIA, EPMP, Russian and international legislation	Minimizing the impact of emissions	Planning of operating modes of road construction equipment that exclude uneven workload in some periods of time and simple equipment in other periods.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
5	ESIA, EPMP, Russian and international legislation	Minimizing the impact of emissions	Control over the operation of equipment during the period of forced downtime or technical break in work. Parking of equipment during these periods is allowed only when the engine is not running	Y	Production control program\ inspection reports	KPI-AN01		Y	Y
6	ESIA, EPMP, Russian and international legislation	Dust suppression	Dust suppression measures during unloading/loading of bulk materials and earthworks. Prevention of soil erosion and their removal from the site by the wheels of vehicles.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y
7	ESIA, EPMP, Russian and international legislation	Minimizing the impact of emissions	Equipping the tanks with floating lids or valves to minimize the evaporation of products into the atmospheric air.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y
8	ESIA, EPMP, Russian and international legislation	Minimizing the impact of noise	Rational placement of noise sources on construction sites.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y
9	ESIA, EPMP, Russian and international legislation	Minimizing the impact of noise	Maintenance of the road surface on the construction routes in good condition, in order to prevent noise during the passage of heavy vehicles.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
10	ESIA, EPMP, Russian and international legislation	Minimizing the impact of noise	Traffic according to the established scheme, prohibition of uncontrolled trips; traffic management aimed at avoiding congestion and waiting with the engine running.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y
11	ESIA, EPMP, Russian and international legislation	Minimizing the impact of noise	Reduction of noise from equipment, due to the designs of silencers, the use of protective covers and hoods with multi-layer coatings of rubber, foam rubber, etc.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y
12	ESIA, EPMP, Russian and international legislation	Minimizing the impact of noise on employees	Conducting training for construction workers on reducing noise/vibration to a minimum. Use of PPE (vibration-proof gloves, anti-noise antiphones, earplugs and headsets).	Y	Production control program\ inspection reports	KPI-AN01		Y	Y

Table 6

Monitoring characteristics

<i>Item No.</i>	<i>Responsibility</i>	<i>Applicable</i>	<i>Category</i>	<i>Description</i>	<i>Parameters</i>	<i>Location</i>	<i>Standards</i>	<i>Frequency</i>	<i>KPI</i>
1.	Contractors	Residential development in the construction work impact zone	Noise levels in the residential area	Monitoring of noise levels at the border of residential development	Noise level, dBA	Border of residential development	<u>SN</u> <u>2.2.4./2.1.8.562-96</u> "Noise at work places, in premises of residential, public buildings and on the residential area"	1 time per quarter (during the day and at night)	KPI-AN01, KPI-AN02
2.	Contractors	Control of emissions into the atmospheric air	Emissions from stationary sources (DPP)	Control of emissions from stationary sources (DPP)	NO <sub>2</sub> CO SO <sub>2</sub>	Construction sites where DPPs are used as permanent sources of electricity	MPE standards, hygienic standards of atmospheric air quality	once a year	KPI-AN01, KPI-AN02
3.	Contractors	Control of emissions into the atmospheric air	Emissions from the construction process as a whole	Control of atmospheric air quality in the construction production impact zone	NO <sub>2</sub> CO SO <sub>2</sub> Suspended solids	Border of residential development	MPE standards, hygienic standards of atmospheric air quality	once a year	KPI-AN01, KPI-AN02

## Appendix 2. Atmospheric air quality management plan in terms of dust suppression

### 1 Types of environmental Impact

1.1 Information on the types of impact on atmospheric air during the construction of IPP is presented according to the data of the "Environmental and Social Impact Assessment" (ESIA) and the section "List of environmental protection measures" of the project documentation "Irkutsk Polymer Plant".

1.2 The impact on the atmospheric air in terms of the intake of dust (suspended substances) into the atmospheric air occurs from the following process operations:

- movement of construction machines and mechanisms (dusting from under the wheels);
- the passage of vehicles on the territory of the construction site (dusting from under the wheels and dusting of the surface of the transported goods);
- movement of ground masses and building materials that are sources of dust formation (sand, gravel, etc.), as well as storage of these materials on the construction site;
- drilling works.

1.3 All these sources of pollutant emissions are fugitive.

### 2 Types of environmental Impact

2.1 The key performance indicators presented in table 7 relate to the control in the field of atmospheric air quality protection and noise exposure control.

Table 7

Key performance indicators for atmospheric air quality management

<i>KPI designation</i>	<i>KPI description</i>	<i>Goal/actions when the threshold level is reached</i>	<i>Data sources</i>
KPI-AN01	Cases of non-compliance with the requirements of this CMP and/or other applicable CMPs	Minimization and further improvement	See table 8
KPI-AN02	Cases of atmospheric air pollution/excess of noise and vibration levels	Minimization and further improvement	Results of Industrial Environmental Control and Monitoring

- 2.2** For each KPI indicator specified in table 7, reporting information is provided to the address of OOO "IPP". The specific requirements for conducting audits to confirm the compliance of the construction process with the requirements for managing impacts and mitigating them provided for in the Air Quality and Noise Impact Management Plan are given in table 8, indicating the appropriate level of audits conducted. Table 9 shows the characteristics of monitoring.

Table 8

Management activities

Item No.	Source of requirements	Task	Requirement/activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
1	ESIA, EPMP, Russian and international legislation	Dust suppression	Strict compliance with the work technology and procedure. The movement of vehicles according to the established scheme, the prevention of uncontrolled trips.	Y	Production control program\ inspection reports	KPI-AN01	Y	Y	Y
2	ESIA, EPMP, Russian and international legislation	Dust suppression	Planning of operating modes of road construction equipment that exclude uneven workload in some periods of time and simple equipment in other periods.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y
3	ESIA, EPMP, Russian and international legislation	Dust suppression	Unloading/loading of dry materials shall be carried out, if possible, under weather conditions with high humidity, avoid pouring dusty materials in warm, dry weather.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y



Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
4	ESIA, EPMP, Russian and international legislation	Dust suppression	Maintenance of the road surface on the construction routes in good condition by irrigation of roads with water in warm dry weather.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y
5	ESIA, EPMP, Russian and international legislation	Dust suppression	Transportation of soil, loose building materials, sand, gravel, etc. in the bodies of cars covered with a canvas.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y
6	ESIA, EPMP, Russian and international legislation	Dust suppression	Storage of soil and loose building materials so that they are covered with a canvas and protected from the effects of atmospheric precipitation.	Y	Production control program\ inspection reports	KPI-AN01		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
7	ESIA, EPMP, Russian and international legislation	Dust suppression	Preventing the removal of soil from the construction site by using a wheel washer (detailed characteristics of the washers are provided in appendix 3).	Y	Production control program\ inspection reports	KPI-AN01		Y	Y

Table 9

Monitoring characteristics

<i>Item No.</i>	<i>Responsibility</i>	<i>Applicable</i>	<i>Category</i>	<i>Description</i>	<i>Parameters</i>	<i>Location</i>	<i>Standards</i>	<i>Frequency</i>	<i>KPI</i>
1	Contractors	Control of emissions into the atmospheric air	Emissions from the construction process as a whole	Control of atmospheric air quality in the construction production impact zone	Suspended solids	Border of residential development	MPE standards, hygienic standards of atmospheric air quality	once a year	KPI-AN01, KPI-AN02

### 3 Requirements for wheel washers

- 3.1 The number of wheel washing points with the recycled water supply units according to the CMP section:
- process units tit. 1100, 1200, 1300 — 4 points;
  - off-site facilities, infrastructural and auxiliary facilities of the process site — 3 points;
  - off-site facilities, infrastructural and auxiliary facilities of the shipment site — 1 point;
  - interfacility (interarea) Communication Line — 1 point;
  - TOTAL — 9-wheel washing points for 2 posts.
- 3.2 The wheel washing point brand is "MOIDODYR-K-2".
- 3.3 Wheel washers are installed at the main exits of local construction sites. The number of exits shall be assigned depending on work conditions, but not less than two per site. As necessary, the wheel washers can be moved to other places of exits.
- 3.4 The location of the wheel washers shall be assumed according to the construction layouts of the section "Construction Management Plan" of the project documentation "Irkutsk Polymer Plant".
- 3.5 Waste is generated from wheel washers: sediment of mechanical treatment of oil-containing wastewater containing petroleum products in an amount of less than 15 % and surfaced petroleum products from oil traps and similar structures.
- 3.6 This runoff from the units shall be drained to the contaminated runoff storage pit, diluted in total volume, settled and then fed to the LTFs for purification and subsequent feeding to the treated runoff storage pit.
- 3.7 The waste generated from wheel washer is regularly collected and exported for disposal by specialized organizations that have the necessary licenses.
- 3.8 Wheel washing is carried out in the warm season.

## Appendix 3. Soil and groundwater impact management plan

### 1 Types of environmental Impact

- 1.1** Information on the types of impact on atmospheric air during the construction of IPP is presented according to the data of the "Environmental and Social Impact Assessment" (ESIA) and the section "List of environmental protection measures" of the project documentation "Irkutsk Polymer Plant".
- 1.2** The impact on soils and groundwater occurs from the following process operations:
- removal of parts of soil areas for the placement of facilities;
  - mechanical violation of the soil cover (regulated — on the territory of long-term and short-term lease; unregulated- unauthorized movement of equipment outside the equipped road network, conducting work outside the land allocation border);
  - contamination of the soil cover as a result of secondary migration of pollutants already present in the soil cover and the geological environment provoked by construction works, as well as as a result of dispersed (with atmospheric precipitation) or concentrated (spills, leaks, etc.) intake of these substances in the course of preparatory, construction, installation and related works;
  - redistribution of surface and subsurface runoff, including barrage and drainage effects;
  - impact on the catchment area during the operation of fuel and lubricants warehouses, gas stations, car washes and construction equipment;
  - all these sources of pollutant emissions are fugitive.

### 2 Types of environmental Impact

- 2.1** The control in the field of soil and groundwater protection includes the key performance indicators presented in table 10.

Table 10

Key performance indicators for quality management in the field of soil and groundwater protection

<i>KPI designation</i>	<i>KPI description</i>	<i>Goal/actions when the threshold level is reached</i>	<i>Data sources</i>
KPI-SW01	Cases of non-compliance with the requirements of this CMP and/or other applicable CMPs	Minimization and further improvement	See table 11
KPI-SW02	The requirements of the CMP are included in the management plans/procedures of contractors	Inclusion of all applicable requirements	Contractor control results
KPI-SW03	Cases of soil/groundwater contamination	Minimization and further improvement	See table 11
KPI-SW04	Cases of non-compliance with legal requirements regarding the protection of soils and groundwater	Minimization and further improvement	Acts of inspections of regulatory bodies

**2.2** For each KPI indicator specified in table 10, reporting information is provided to the address of ООО “IPP”. The specific requirements for conducting audits to confirm the compliance of the construction process with the requirements for managing impacts and mitigating them provided for in the Air Quality and Noise Impact Management Plan are given in table 11, indicating the appropriate level of audits conducted. Table 12 shows the characteristics of monitoring.

Table 11

Management activities

Item No.	Source of requirements	Task	Requirement/activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
1	ESIA, EPMP, Russian and international legislation	Minimizing the impact on soils and groundwater	Refueling of vehicles and construction equipment is carried out in a closed way, exclusively in designated areas equipped with closed containers (replaceable containers) for collecting spent fuel and lubricants, rags	Y	Audit results	KPI-SW01, KPI-SW02, KPI-SW04		Y	Y
2	ESIA, EPMP, Russian and international legislation	Minimizing the impact on soils and groundwater	Rational use of material resources, minimizing the volume of waste generated with their maximum possible utilization and neutralization	Y	Audit results	KPI-SW01, KPI-SW02, KPI-SW04	Y	Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
3	ESIA, EPMP, Russian and international legislation	Minimizing the impact on soils and groundwater	Storage of construction materials, waste, fuel and lubricants and oils only at specially equipped sites, the conditions of which exclude contamination and cluttering of the soil cover and soils, burning or spontaneous ignition of waste and other combustible materials.	Y	Audit results	KPI-SW01, KPI-SW03, KPI-SW04	Y	Y	Y
4	ESIA, EPMP, Russian and international legislation	Minimizing the impact on ground/ underground water	Installation of underground drainage tanks in a fuel and lubricants warehouse. Diking of tanks with liquid hydrocarbons, taking into account 110 % of the reserve by volume of the tank (the largest tank when organizing single diking for a group of tanks).	Y	Audit results	KPI-SW01, KPI-SW02, KPI-SW04	Y	Y	Y



Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
5	ESIA, EPMP, Russian and international legislation	Minimizing the impact on groundwater and soil	The use of dry transformers, if it is impossible — the organization of the required size of the tank for draining oil and handling transformer oils in accordance with the requirements.	Y	Audit results	KPI-SW01, KPI-SW02, KPI-SW04	Y	Y	Y
6	ESIA, EPMP, Russian and international legislation	Minimizing the impact on ground / underground water	Prohibition on washing machines and mechanisms on construction sites. Organization of washing the wheels of motor vehicles and construction equipment when leaving the construction zone.	Y	Technical documentation Audit results	KPI-SW01, KPI-SW02, KPI-SW03		Y	Y
7	ESIA, EPMP, Russian and international legislation	Minimizing the impact on ground / underground water	Organization of a system for collecting and removing surface runoff and directing it to treatment facilities.	Y	Technical documentation Audit results	KPI-SW01, KPI-SW02, KPI-SW04		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
8	ESIA, EPMP, Russian and international legislation	Minimizing the impact on soils	Stabilization of slopes and dumps of earth masses when they are expected to be on the site for more than 2 weeks.	Y	Technical documentation Audit results	KPI-SW01, KPI-SW02, KPI-SW04		Y	Y
9	ESIA, EPMP, Russian and international legislation	Minimizing the impact on soils	Anti-erosion organization of the construction site; Performing technical and biological recultivation of land plots that were violated during construction and installation works.	Y	Technical documentation Audit results	KPI-SW01, KPI-SW02, KPI-SW04		Y	Y
10	ESIA, EPMP, Russian and international legislation	Minimizing the impact on soils	Movement of construction equipment strictly within the boundaries of land allocation; carrying out works within the boundaries of the designated territory without excess withdrawal of additional areas.	Y	Technical documentation Audit results	KPI-SW01, KPI-SW02, KPI-SW04		Y	Y

Table 12

Monitoring characteristics

<i>Item No.</i>	<i>Responsibility</i>	<i>Applicable</i>	<i>Category</i>	<i>Description</i>	<i>Parameters</i>	<i>Location</i>	<i>Standards</i>	<i>Frequency</i>	<i>KPI</i>
1	Contractors	Construction	Chemical contamination of the soil cover	Observations of the level of contamination of the soil cover with heavy metals (Pb, Cd, Zn, Cu, Ni, As, Hg), 3,4-benz (a)pyrene and petroleum products at test sites — control and background	SC pH Total pollution indicator	Land allocation of construction, including areas of completed reclamation and landscaping. The territory directly adjacent to the construction land allocation (a strip with a width of 50 and 100 m).	Clause 6.4 <u>SanPiN 2.1.7.1287-03</u>	Once after the construction is completed during the warm season	KPI-SW03

<i>Item No.</i>	<i>Responsibility</i>	<i>Applicable</i>	<i>Category</i>	<i>Description</i>	<i>Parameters</i>	<i>Location</i>	<i>Standards</i>	<i>Frequency</i>	<i>KPI</i>
2	Contractors	Construction	Soil protection	Periodic monitoring of storage sites for the material of the fertile soil layer; Monitoring of sites from the outside of the perimeter of the plant sites, related objects for the detection of physical and mechanical violations of the soil cover.	Assessment of the condition of the storage clamps, storage conditions.  The fact of littering and violation of the integrity of adjacent lands.	Land allocation  The territory directly adjacent to the construction land allocation (a strip with a width of 50 and 100 m).		Quarterly	KPI-SW04

<i>Item No.</i>	<i>Responsibility</i>	<i>Applicable</i>	<i>Category</i>	<i>Description</i>	<i>Parameters</i>	<i>Location</i>	<i>Standards</i>	<i>Frequency</i>	<i>KPI</i>
3	Contractors	Construction	Soil protection	Monitoring of the soil cover of reclaimed land plots.	Area of reclaimed land plots; monitoring of fertility parameters if necessary.	Land allocation of construction, including areas of completed reclamation and landscaping. The territory directly adjacent to the construction land allocation (a strip with a width of 50 and 100 m).	<a href="#">GOST R 57446-2017</a>	Once after the completion of technical recultivation in the warm season. Annually for 2 years after the biological stage of reclamation.	KPI-SW04

## Appendix 4. Water and wastewater management plan

### 1 Types of environmental Impact

- 1.1 Information on the types of impact on atmospheric air during the construction of IPP is presented according to the data of the “Environmental and Social Impact Assessment” (ESIA) and the section “List of environmental protection measures” of the project documentation “Irkutsk Polymer Plant”.
- 1.2 The impact associated with water consumption and wastewater occurs from the following process operations:
- withdrawal of water resources from natural sources (water intake in the area of the Polovinnaya River for drinking needs and water intake from the Lena River for technical needs) and discharge of wastewater into surface water bodies;
  - formation of household wastewater as a result of the vital activity of construction crews;
  - the formation of industrial wastewater as a result of hydraulic tests of pipelines and tank structures;
  - formation of surface storm wastewater as a result of rain and snowmelt.

### 2 Types of environmental Impact

- 2.1 The key performance indicators presented in table 13 relate to the control of wastewater management.

Table 13

Key performance indicators for wastewater management

<i>KPI designation</i>	<i>KPI description</i>	<i>Goal/actions when the threshold level is reached</i>	<i>Data sources</i>
KPI-WW01	Cases of non-compliance with the requirements of this CMP and/or other applicable CMPs	Minimization and further improvement	See table 14
KPI-WW02	The requirements of the CMP are included in the management plans/procedures of contractors	Inclusion of all applicable requirements	Contractor control results
KPI-WW03	Cases of contamination of surface water bodies/groundwater	Minimization and further improvement	See table 14

<i>KPI designation</i>	<i>KPI description</i>	<i>Goal/actions when the threshold level is reached</i>	<i>Data sources</i>
KPI-WW04	Cases of non-compliance with legal requirements regarding the protection of surface and groundwater	Minimization and further improvement	Acts of inspections of regulatory bodies

**2.2** For each KPI indicator specified in table 13, reporting information is provided to the address of OOO "IPP". The specific requirements for conducting audits to confirm the compliance of the construction process with the requirements for managing impacts and mitigating them provided for in the Air Quality and Noise Impact Management Plan are given in table 14, indicating the appropriate level of audits conducted. Table 15 shows the characteristics of monitoring.

Table 14

Management activities

Item No.	Source of requirements	Task	Requirement/activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
1	ESIA, EPMP, Russian and international legislation	Minimizing the impact of wastewater	Accumulation and timely removal of domestic wastewater generated in the temporary settlement of builders to municipal treatment facilities.	Y	Audit results	KPI-WW01		Y	Y
2	ESIA, EPMP, Russian and international legislation	Minimizing the impact of wastewater	Accumulation and direction of industrial wastewater generated after hydraulic tests to local treatment facilities.	Y	Audit results	KPI-WW01		Y	Y
3	ESIA, EPMP, Russian and international legislation	Ensuring the design efficiency of the treatment facilities	Monitoring the operation of local treatment facilities.	Y	Audit results	KPI-WW01		Y	Y
4	ESIA, EPMP, Russian and international legislation	Minimizing the impact of wastewater	Wastewater treatment up to fisheries standards/ quality control of treated wastewater within the framework of production control.	Y	Audit results	KPI-WW01 KPI-WW03 KPI-WW04		Y	Y



Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
5	ESIA, EPMP, Russian and international legislation	Minimizing the impact of construction on the state of the water protection zone as a result of the construction of the first lift pumping station	Proper organization of waste accumulation sites; lack of filling stations, fuel depots; recultivation of disturbed areas at the end of the work; site cleaning.	Y	Audit results	KPI-WW02 KPI-WW03		Y	Y

Table 15

Monitoring characteristics

<i>Item No.</i>	<i>Responsibility</i>	<i>Applicable</i>	<i>Category</i>	<i>Description</i>	<i>Parameters</i>	<i>Location</i>	<i>Standards</i>	<i>Frequency</i>	<i>KPI</i>
1	Contractors	Wastewater management	Control of the amount of wastewater	Accounting for the amount of wastewater	Accounting of the generated amount of wastewater by the balance and settlement method	Collectors of domestic and industrial wastewater (from hydraulic tests of pipelines and tank structures)	According to the permissible discharge standards set for the design	According to the approved Industrial Environmental Control and Monitoring Program	KPI- WW01 KPI- WW02
2	Contractors	Wastewater management	Quality control of treated wastewater	Accounting for the quality of treated wastewater	Suspended solids, BOD, COD, Petroleum products	Collectors of domestic and industrial wastewater (from hydraulic tests of pipelines and tank structures)	According to the permissible discharge standards set for the design	According to the approved Industrial Environmental Control and Monitoring Program	KPI- WW01 KPI- WW02

<i>Item No.</i>	<i>Responsibility</i>	<i>Applicable</i>	<i>Category</i>	<i>Description</i>	<i>Parameters</i>	<i>Location</i>	<i>Standards</i>	<i>Frequency</i>	<i>KPI</i>
3	Contractors	Protection of water bodies	Monitoring of water quality in the Lena River	Monitoring of the state of the wastewater intake facility	temperature; hydrogen index (pH); suspended solids; BOD5; COD; dissolved oxygen; dry residue. Related measurements: floating impurities; turbidity; color; odor. Concentrations of pollutants: ammonium ions; nitrite ion; nitrate ion; bicarbonates; total phosphorus; phosphate phosphorus; potassium; sodium; chloride ion; sulfate ion; total iron; total nitrogen; zinc; copper; nickel; anionic surfactants; non-ionic surfactants; phenols; petroleum products.	The observation point is installed on the border of the observation zone. The border passes no further than 500 m downstream from the cross-section, as well as in the place of the "background" observation area located at least 100 m upstream from the cross-section.	According to the permissible discharge standards set for the design	According to the approved Industrial Environmental Control and Monitoring Program	KPI-WW02 KPI-WW03 KPI-WW04

## Appendix 5. Hazardous substances and materials management plan

### 1 Types of environmental Impact

- 1.1 Information on the types of impact on atmospheric air during the construction of IPP is presented according to the data of the “Environmental and Social Impact Assessment” (ESIA) and the section “List of environmental protection measures” of the project documentation “Irkutsk Polymer Plant”.
- 1.2 The impact associated with water consumption and wastewater occurs from the following process operations:
- storage of fuels and lubricants, their use when refueling mechanisms, vehicles and disposal;
  - transportation of fuel and lubricants, paint and varnish materials;
  - painting works.

### 2 Types of environmental Impact

- 2.1 The control in the field of handling hazardous substances and materials includes the key performance indicators presented in table 16.

Table 16

Key performance indicators for the management of hazardous substances and materials

<i>KPI designation</i>	<i>KPI description</i>	<i>Goal/actions when the threshold level is reached</i>	<i>Data sources</i>
KPI-Hz01	Cases of non-compliance with the requirements of this CMP and/or other applicable CMPs	Minimization and further improvement	See table 17
KPI-Hz02	Cases of soil, surface and ground water contamination	Minimization and further improvement	Results of Industrial Environmental Control and Monitoring Audit results

- 2.2 For each KPI indicator specified in table 16, reporting information is provided to the address of ООО “IPP”. The specific requirements for conducting audits to confirm the compliance of the construction process with the requirements for managing impacts and mitigating them provided for in the Air Quality and Noise Impact Management Plan are given in table 17, indicating the appropriate level of audits conducted. Table 18 shows the characteristics of monitoring.

Table 17

Management activities

Item No.	Source of requirements	Task	Requirement/activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
1	ESIA, EPMP, Russian and international legislation	Minimizing the impact of handling hazardous waste	Processing, accumulation, transportation and disposal of hazardous waste is carried out in accordance with the waste management CMP.	Y	Checklist/verification results	KPI-Hz01, KPI-Hz02		Y	Y
2	ESIA, EPMP, Russian and international legislation	Minimizing the impact in the storage areas of fuel and lubricants	Storage of containers with fuel and lubricants and spent petroleum products in specially designated places on sites with a hard surface and a canopy for protection from precipitation and direct sunlight.	Y	Checklist/verification results	KPI-Hz01, KPI-Hz02		Y	Y
3	ESIA, EPMP, Russian and international legislation	Minimizing the impact when handling hazardous materials	Use of containers, packaging, containers that have the appropriate marking.	Y	Checklist/verification results	KPI-Hz01, KPI-Hz02		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
4	ESIA, EPMP, Russian and international legislation	Compliance with fire safety requirements, minimizing the impact	Lubricants, paint and varnish and flammable materials shall be stored separately from each other in specially equipped storage rooms or sites.	Y	Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y
5	ESIA, EPMP, Russian and international legislation	Compliance with fire safety requirements, minimizing the impact	Storage areas for combustible materials shall be equipped with fire-fighting equipment.	Y	Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y
6	ESIA, EPMP, Russian and international legislation	Minimizing the impact when handling hazardous materials	The storage rooms for hazardous materials shall be isolated and equipped with locks to restrict the access of unauthorized personnel.	Y	Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y
7	ESIA, EPMP, Russian and international legislation	Compliance with fire safety requirements, minimizing the impact	In places where combustible materials are stored, a ban on smoking or lighting a fire shall be introduced, indicated by appropriate prohibiting signs.	Y	Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
8	ESIA, EPMP, Russian and international legislation	Minimizing the impact when handling hazardous materials	Storage of fuel and lubricants in tanks or barrels with a volume of more than 220 liters is equipped with a secondary protective shell (pallets) to prevent spills in case of emergency depressurization of containers, the volume of the secondary protective shell is at least 110 % of the volume of the largest container, or 25 % of the total storage volume.	Y	Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y
9	ESIA, EPMP, Russian and international legislation	Minimizing the impact when handling hazardous materials	Carrying out refueling of stationary machines and machines with limited mobility (excavators, bulldozers, etc.) directly on the construction site with the help of a tanker equipped with a pumping and measuring unit, a meter, a drain sleeve and a transfer gun, which eliminates spills of diesel fuel.	Y	Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
10	ESIA, EPMP, Russian and international legislation	Minimizing the impact when handling hazardous materials	Certification of all hoses, their connections, related equipment and equipment for working with fuel and lubricants.	Y	Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y
11	ESIA, EPMP, Russian and international legislation	Minimizing the impact when handling hazardous materials	The presence of sorbents (oil-absorbing materials, rags) in places of work with diesel fuel, fuel and other dangerous substances.	Y	Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y
12	ESIA, EPMP, Russian and international legislation	Minimizing the impact when handling hazardous materials	Availability and application of appropriate response plans for spills of diesel fuel, fuel and lubricants.	Y	Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y



Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
13	ESIA, EPMP, Russian and international legislation	Ensuring fire safety when handling hazardous materials	Grounding and lightning protection shall be provided in tank farms, transshipment stations and other equipment used for handling flammable materials.		Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y
14	ESIA, EPMP, Russian and international legislation	Safe conduct of works when handling hazardous materials	Fuel storage sites and access roads to them shall be illuminated in the evening and at night.		Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y
15	ESIA, EPMP, Russian and international legislation	Ensuring safe transportation conditions, minimizing the impact	Transportation of hazardous materials is carried out by specially equipped and equipped with special signs vehicles, in compliance with the safety requirements for the transportation of dangerous goods.		Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
16	ESIA, EPMP, Russian and international legislation	Ensuring safe transportation conditions, minimizing the impact	Transportation of fuel and lubricants is carried out in compliance with the high-speed mode of movement of vehicles carrying dangerous cargo.		Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y
17	ESIA, EPMP, Russian and international legislation	Ensuring safe transportation conditions, minimizing the impact	Transportation of hazardous materials by road is carried out only by operators who have a license to transport specific types of goods, as well as using appropriate sealed and labeled containers.		Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y
18	ESIA, EPMP, Russian and international legislation	Minimizing the impact when handling hazardous materials	Fuel storage areas, gas stations, car washing sites, etc. shall be located outside the water protection zones.		Checklist/ verification results	KPI-Hz01, KPI-Hz02		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
19	ESIA, EPMP, Russian and international legislation	Ensuring safe working conditions when handling hazardous materials	Hazardous materials used on construction sites shall have safety data sheets and appropriate labeling.		Availability of safety data sheets, markings/ inspection results	KPI-Hz01, KPI-Hz02		Y	Y
20	ESIA, EPMP, Russian and international legislation	Ensuring safe working conditions when handling hazardous materials	The handling of hazardous materials will be carried out in accordance with procedures developed taking into account the requirements applicable to the Project, including a special assessment of working conditions and the need for PPE.		Provision with PPE Instructions for handling hazardous materials/ inspection results	KPI-Hz01, KPI-Hz02	Y	Y	Y
21	ESIA, EPMP, Russian and international legislation	Minimizing the impact when handling hazardous materials	Personnel involved in the transportation of hazardous materials shall be trained in safe methods of transportation and emergency response.		Training records	KPI-Hz01, KPI-Hz02	Y	Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
22	ESIA, EPMP, Russian and international legislation	Minimizing the impact when handling hazardous materials	Keeping records of the types and volumes of hazardous materials located on the contractor's construction sites, including: the name and safety data sheet of the hazardous material, the condition of the hazardous substances storage site, the amount of hazardous material stored and used monthly.		Hazardous Materials Log Book	KPI-Hz01,		Y	Y

Table 18

Monitoring characteristics

<i>Item No.</i>	<i>Responsibility</i>	<i>Applicable</i>	<i>Category</i>	<i>Description</i>	<i>Parameters</i>	<i>Location</i>	<i>Standards</i>	<i>Frequency</i>	<i>KPI</i>
1	Contractors	Places of storage of hazardous materials	Management of Hazardous Materials	Assessment of the processes of handling hazardous materials for their compliance with applicable environmental requirements and best practices.	Determination of compliance of storage conditions of hazardous materials with environmental, sanitary-epidemiological and fire protection requirements	Places of storage of hazardous materials	Legal requirements	at least once per quarter	KPI-Hz01
2	Contractors	Places of storage of hazardous materials	Handling of hazardous materials/ working conditions	Assessment of the processes of handling hazardous materials for their compliance with the applicable requirements of safe working conditions.	Availability of safety data sheets. Availability of marking. Availability of instructions for handling hazardous materials.	Places of storage and use of hazardous materials	Legal requirements	at least once per quarter	KPI-Hz01
3	Contractors	Places of storage of hazardous materials	Management of Hazardous Materials	Assessment of the processes of handling hazardous materials for their compliance with applicable environmental requirements.	The presence of a hard coating of platforms, embankment, pallets.  Availability of emergency spill response facilities.	Warehouses of fuel and lubricants, places of storage of paint and varnish materials	Legal requirements	at least once per quarter	KPI-Hz01

<i>Item No.</i>	<i>Responsibility</i>	<i>Applicable</i>	<i>Category</i>	<i>Description</i>	<i>Parameters</i>	<i>Location</i>	<i>Standards</i>	<i>Frequency</i>	<i>KPI</i>
4	Contractors	Places of storage of hazardous materials	Handling of hazardous materials/ fire safety	Assessment of the processes of handling hazardous materials for their compliance with applicable fire safety requirements.	Separate storage of incompatible materials; the presence of no smoking signs; availability of ventilation in the rooms where fuel and lubricants are stored.	Places of storage of hazardous materials	Legal requirements	at least once per quarter	KPI-Hz01, KPI-Hz02,
5	Contractors	Places of storage / use of hazardous materials	Handling of hazardous materials/ working conditions	Assessment of the processes of handling hazardous materials for their compliance with applicable labor protection requirements	Availability of instructions for handling hazardous materials.  Availability of PPE.	Places of storage/ use of hazardous materials	Legal requirements	at least once per quarter	KPI-Hz01, KPI-Hz02,

## Appendix 6. waste management plan

### 1 Types of environmental Impact

- 1.1 Information on the types of impact on atmospheric air during the construction of IPP is presented according to the data of the "Environmental and Social Impact Assessment" (ESIA) and the section "List of environmental protection measures" of the project documentation "Irkutsk Polymer Plant".
- 1.2 The impact associated with water consumption and wastewater occurs from the following process operations:
- carrying out excavation and road works;
  - installation of building structures and equipment;
  - finishing works;
  - pre-commissioning;
  - unpacking of materials;
  - operation of motor vehicles and construction equipment.
- 1.3 From these process operations, waste of construction materials, scrap of ferrous and non-ferrous metals, packaging waste, waste of oils, solvents, paint and varnish materials, cleaning material contaminated with petroleum products, soil contaminated with petroleum products, sediments of septic tanks and catchpit during the arrangement of temporary sanitary facilities on construction sites, as well as solid municipal waste from the life activities of construction personnel are formed.

### 2 Types of environmental Impact

- 2.1 The control in the field of waste management includes the key performance indicators presented in table 19.

Table 19

Key performance indicators for waste management

<i>KPI designation</i>	<i>KPI description</i>	<i>Goal/actions when the threshold level is reached</i>	<i>Data sources</i>
KPI-WM01	Cases of non-compliance with the requirements of this CMP and/or other applicable CMPs	Minimization and further improvement	See table 20
KPI-WM02	The applicable requirements of the CMP are included in the plans/procedures for contractor management	Inclusion of all applicable requirements	Contractor control results

<i>KPI designation</i>	<i>KPI description</i>	<i>Goal/actions when the threshold level is reached</i>	<i>Data sources</i>
KPI-WM03	Volumes of waste generation by hazard classes	Minimization and further improvement	See table 20
KPI-WM04	Cases of non-compliance with the design limits for the formation of waste identified during the monitoring process	Absence or reduction of the number of inconsistencies	Acts of inspections of regulatory bodies

**2.2** For each KPI indicator specified in table 19, reporting information is provided to the address of OOO "IPP". The specific requirements for conducting audits to confirm the compliance of the construction process with the requirements for managing impacts and mitigating them provided for in the Air Quality and Noise Impact Management Plan are given in table 20, indicating the appropriate level of audits conducted. table 21 shows the characteristics of monitoring.



Table 20

Management activities

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
1	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Safe temporary accumulation of waste only within specially designated facilities; elimination of the risk of theft or vandalism.	Y	Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y
2	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Selective accumulation of waste by their types, hazard classes and other characteristics in order to ensure their reuse as secondary raw materials, neutralization and subsequent placement at licensed facilities.	Y	Checklist/ verification results	KPI-WM01, KPI-WM02		Y	Y
3	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Using marked containers.	Y	Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y
4	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Containers for the collection of household waste shall be equipped with a tightly closed lid.	Y	Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
5	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Premises for the temporary accumulation of waste of hazard classes I and II shall be isolated, with separate storage of waste; and the doors shall be equipped with locks to restrict access by unauthorized personnel.	Y	Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y
6	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Equipment of temporary waste accumulation sites at construction sites with a hard surface and fencing with a height of 1.0–1.2 m on three sides to prevent garbage from entering the adjacent territory.	Y	Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y
7	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Pallet equipment / dumping of temporary liquid waste disposal facilities to provide secondary protection against liquid waste spills	Y	Checklist/ verification results	KPI- WM 01, KPI- WM 02		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
8	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Liquid waste shall be stored in tanks or barrels at sites with a dumping capacity of 110 % of the total storage capacity.	Y	Checklist/ verification results	KPI- WM 01, KPI- WM 02		Y	Y
9	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Protection of hazardous waste from the effects of atmospheric precipitation (canopies, equipment with covers, etc.).	Y	Checklist/ verification results	KPI- WM 01, KPI- WM 02		Y	Y
10	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Equipping the places of accumulation of waste of petroleum products with sets of tools for the elimination of spills.	Y	Checklist/ verification results	KPI- WM 01, KPI- WM 02		Y	Y
11	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Release of construction debris and unused construction products from the facility's area after the completion of construction works.	Y	Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
12	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Equipping with canvases of all vehicles carrying open storage bunkers with waste	Y	Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y
13	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Access roads to waste storage sites shall be illuminated in the evening and at night		Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
14	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Transportation of hazardous waste shall be carried out in the presence of a data sheet of hazardous waste, specially equipped and equipped with special signs, vehicles, in compliance with the safety requirements for the transportation of dangerous goods.		Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y
15	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Disposal/ neutralization/recycling of waste only at licensed specialized enterprises.		Checklist/ verification results	KPI-WM 01, KPI-WM 02	Y	Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
16	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	To prevent the decomposition of food waste, the accumulation period in the cold season (at a temperature of -5 °C and below) shall be no more than two days, in warm weather (at a temperature above +5 °C) not more than one day.		Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y
17	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Storage of food waste in tightly closed containers on fenced sites, as well as timely disposal of waste that serves as food sources for animals from places of temporary accumulation.		Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
18	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Removal of the feed base for rodents due to the safe temporary storage of food waste in closed containers within specially designated areas, regular collection and removal of waste by licensed contractors or by their own forces if there is a license and special transport.		Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y
19	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Liquid household waste from septic tanks shall be collected in special containers and transported to the treatment facilities in a timely manner by specialized machines.		Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
20	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Regular collection of waste by licensed organizations or by their own forces if they have a license for the collection, transportation, processing, disposal, neutralization, disposal of waste of hazard classes I–IV.		Checklist/ verification results	KPI-WM 01, KPI-WM 02		Y	Y
21	ESIA, EPMP, Russian and international legislation	Minimizing the impact of waste management	Appointment of persons responsible for waste management at all Project facilities who have professional training confirmed by certificates for the right to work with production and consumption waste.		Contracts with licensed organizations  Checklist/ verification results	KPI-WM 01 KPI-WM 02	Y	Y	Y



Table 21

Monitoring characteristics

<i>Item No.</i>	<i>Responsibility</i>	<i>Applicable</i>	<i>Category</i>	<i>Description</i>	<i>Parameters</i>	<i>Location</i>	<i>Standards</i>	<i>Frequency</i>	<i>KPI</i>
1	Contractors	Places of temporary storage (accumulation) of waste	Waste Treatment	Assessment of waste management processes for their compliance with applicable environmental requirements.	Determination of compliance of waste accumulation conditions with environmental, sanitary-epidemiological and fire protection requirements.	Places of temporary storage (accumulation) of waste	As they are formed and accumulated, but at least once per month	KPI-WM01	Places of temporary storage (accumulation) of waste
2	Contractors	Places of temporary storage (accumulation) of waste	Waste Treatment	Assessment of waste management processes for their compliance with applicable environmental requirements.	Accounting of the amount (volumes) of waste, taking into account their type and hazard class.	Places of temporary storage (accumulation) of waste	As they are formed and accumulated, but at least once per month	KPI-WM01, KPI-WM03, KPI-WM04	Places of temporary storage (accumulation) of waste

<i>Item No.</i>	<i>Responsibility</i>	<i>Applicable</i>	<i>Category</i>	<i>Description</i>	<i>Parameters</i>	<i>Location</i>	<i>Standards</i>	<i>Frequency</i>	<i>KPI</i>
3	Contractors	Places of temporary storage (accumulation) of waste	Waste Treatment.	Assessment of waste management processes for their compliance with applicable environmental requirements.	Determination of the presence or absence of waste outside the places of its accumulation.	Places of temporary storage (accumulation) of waste	As they are formed and accumulated, but at least once per month	KPI-WM01	Places of temporary storage (accumulation) of waste
4	Contractors	Places of temporary storage (accumulation) of waste	Waste Treatment.	Assessment of waste management processes for their compliance with applicable environmental requirements.	Accounting for the type and amount of waste located outside the place of temporary accumulation.	Places of temporary storage (accumulation) of waste	As they are formed and accumulated, but at least once per month	KPI-WM01, KPI-WM03, KPI-WM04	Places of temporary storage (accumulation) of waste

## **Appendix 7. Greenhouse gas emissions management plan**

### **1 Types of environmental Impact**

- 1.1** Greenhouse gas emissions are possible as a result of the combustion of hydrocarbon fuel in internal combustion engines of motor vehicles and construction equipment.
- 1.2** The greenhouse gas emissions management plan shall be developed independently by ООО "IPP" as a separate document.

## **Appendix 8. Biodiversity management plan**

### **1 Types of environmental Impact**

- 1.1** The impact on biodiversity is possible as a result of the withdrawal of areas for a construction site, as well as as a result of noise and other impacts on the adjacent territory.
- 1.2** The greenhouse gas emissions management plan shall be developed independently by ООО "IPP" as a separate document.

## Appendix 9. Contaminated soil management plan

### 1 Types of environmental Impact

- 1.1 Information on the types of impact on atmospheric air during the construction of IPP is presented according to the data of the "Environmental and Social Impact Assessment" (ESIA) and the section "List of environmental protection measures" of the project documentation "Irkutsk Polymer Plant".
- 1.2 The impact on the environment when handling contaminated soils occurs from the following process operations:
- spills, leaks of petroleum products during improper storage and transportation of fuels and lubricants;
  - leakage of fuel and lubricants during the operation of transport, refueling of mechanisms and vehicles;
  - contamination of the soil cover as a result of secondary migration of pollutants already present in the soil cover and the geological environment provoked by construction works, as well as as a result of dispersed (with atmospheric precipitation) or concentrated (spills, leaks, etc.) intake of these substances during preparatory, construction, installation and related works;
  - improper storage and transportation of waste;
  - painting works, transportation of paint and varnish materials.

### 2 Types of environmental Impact

- 2.1 The key performance indicators presented in table 22 relate to control in the field of contaminated soil management.

Table 22

Key performance indicators for waste management

<i>KPI designation</i>	<i>KPI description</i>	<i>Goal/actions when the threshold level is reached</i>	<i>Data sources</i>
KPI-CS01	Cases of non-compliance with the requirements of this CMP and/or other applicable CMPs.	Minimization and further improvement	See table 23
KPI-CS02	The requirements of the CMP are included in the management plans/procedures of contractors.	Inclusion of all applicable requirements	Contractor control results

<i>KPI designation</i>	<i>KPI description</i>	<i>Goal/actions when the threshold level is reached</i>	<i>Data sources</i>
KPI-CS03	Cases of non-compliance with the design limits for the formation of contaminated soils identified during the monitoring process.	Minimization and further improvement	See table 23

**2.2** For each KPI indicator specified in table 22, reporting information is provided to the address of OOO "IPP". The specific requirements for conducting audits to confirm the compliance of the construction process with the requirements for managing impacts and mitigating them provided for in the Air Quality and Noise Impact Management Plan are given in table 23, indicating the appropriate level of audits conducted. Table 24 shows the characteristics of monitoring.

Table 23

Management activities

Item No.	Source of requirements	Task	Requirement/activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
1	ESIA, EPMP, Russian and international legislation	Minimizing the impact on the components of the natural environment when handling drilling waste.	The use of environmentally friendly solutions prepared from clay powder and water, as well as a tubeless technology for handling drilling waste, when drilling wells.	Y	Specification for drilling mud  Audit results	KPI-CS01, KPI-CS02	Y	Y	Y
2	ESIA, EPMP, Russian and international legislation	Minimizing the impact on soils and the geological environment.	Prohibition on the use of polluted soils in the formation of man-made landforms.	Y	Audit results	KPI-CS01, KPI-CS02		Y	Y
3	ESIA, EPMP, Russian and international legislation	Minimizing the impact on soils and the geological environment.	Prohibition on the use of frozen soil or soil mixed with snow, a fertile layer of soil, soft-plastic clay and waterlogged soils for filling the sinuses of pits.	Y	Audit results	KPI-CS01, KPI-CS02		Y	Y
4	ESIA, EPMP, Russian and international legislation	Minimizing the impact on soils and groundwater.	Diking of sites where fuel leaks are possible with the removal of contaminated rainwater into storage tanks.	Y	Audit results	KPI-CS01, KPI-CS02		Y	Y

Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
5	ESIA, EPMP, Russian and international legislation	Minimizing the impact on soils and groundwater.	Diking of tanks with liquid hydrocarbons, taking into account 110 % of the reserve by volume of the tank (the largest tank when organizing single diking for a group of tanks).	Y	Audit results	KPI-CS01, KPI-CS02	Y	Y	Y
6	ESIA, EPMP, Russian and international legislation	Minimizing the impact on soils and groundwater.	In case of soil contamination with petroleum products — filling the fuel filling sites with sand, followed by its removal to the disposal sites.	Y	OSR plans Audit results	KPI-CS01, KPI-CS02		Y	Y
7	ESIA, EPMP, Russian and international legislation	Prevention of groundwater and soil pollution.	In order to avoid contamination of the parking lot with fuel and lubricants, before the start of work, the parking area of cars and mechanisms is filled with inert materials (sand, sand-gravel mixture).	Y	Work execution plan Audit results	KPI-CS01, KPI-CS02		Y	Y
8	ESIA, EPMP, Russian and international legislation	Prevention of pollution of surface, underground water and soil.	The discharge of untreated wastewater into surface water bodies and onto the terrain is excluded.	Y	Specification for wastewater intake	KPI-CS01, KPI-CS02	Y	Y	Y



Item No.	Source of requirements	Task	Requirement/ activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
9	ESIA, EPMP, Russian and international legislation	Prevention of contamination of soil and vegetation cover and surface runoff.	Organization of regular cleaning of the territory; timely removal of waste; carrying out timely repair of road surfaces; fencing of landscaping areas with curbs that exclude the washing of soil during heavy rains on road surfaces.	Y	Audit results	KPI-CS01, KPI-CS02			
10	ESIA, EPMP, Russian and international legislation	Minimizing the impact on the geological environment and near-surface runoff.	Implementation of a set of anti-erosion measures — strengthening of slopes and slants; organization of surface runoff drainage (drainage, storm sewer system, storm water treatment).	Y	Repair works schedule Audit results	KPI-CS01, KPI-CS02		Y	Y
11	ESIA, EPMP, Russian and international legislation	Minimizing the impact on the components of the natural environment during waste management.	Installation of containers for household and industrial waste in the work area and regular waste removal; prevention of cluttering of the construction zone with garbage, waste of insulation and other materials, as well as its contamination with fuels and lubricants.	Y	Work execution plan Audit results	KPI-CS01, KPI-CS02		Y	Y

Item No.	Source of requirements	Task	Requirement/activity	Responsibility	Execution criteria	KPI	Audit level		
							1	2	3
12	ESIA, EPMP, Russian and international legislation	Minimizing the impact on the components of the natural environment during waste management.	Pallet equipment/dumping of temporary liquid waste disposal facilities to provide secondary protection against liquid waste spills.	Y	Checklist/verification results	KPI-CS01, KPI-CS02		Y	Y
13	ESIA, EPMP, Russian and international legislation	Minimizing the impact on soils and the geological environment.	Carrying out technical and biological recultivation of short-term lease land plots after completion of construction; land improvement and landscaping of sites on the territory of production zones located outside buildings and structures.		Technical documentation Audit results	KPI-CS01, KPI-CS02	Y	Y	Y

Table 24

Monitoring characteristics

<i>Item No.</i>	<i>Responsibility</i>	<i>Applicable</i>	<i>Category</i>	<i>Description</i>	<i>Parameters</i>	<i>Location</i>	<i>Standards</i>	<i>Frequency</i>	<i>KPI</i>
1	Contractors	Construction	Handling of contaminated soils	Accounting for the resulting amount of contaminated soil.	Determination of compliance of the conditions for the accumulation of contaminated soils with environmental, sanitary-epidemiological and fire protection requirements.	Places of temporary storage (accumulation) of waste	Legal requirements	As they are formed and accumulated, but at least once per month	KPI-CS03
2	Contractors	Construction	Handling of contaminated soils	Assessment of the processes of handling contaminated soils for their compliance with applicable environmental requirements.	Availability of a separate designated area with a hard surface and embankment and/or containers.	Places of temporary storage (accumulation) of waste	Legal requirements	at least once per quarter	KPI-CS01

<i>Item No.</i>	<i>Responsibility</i>	<i>Applicable</i>	<i>Category</i>	<i>Description</i>	<i>Parameters</i>	<i>Location</i>	<i>Standards</i>	<i>Frequency</i>	<i>KPI</i>
3	Contractors	Construction	Handling of contaminated soils	Assessment of waste management processes for their compliance with applicable environmental requirements.	Accounting for the type and amount of contaminated soil located outside the place of temporary accumulation.	Land allocation  The territory directly adjacent to the construction land allocation (a strip with a width of 50 and 100 m).	Legal requirements	At least once per month	KPI-CS03

## Appendix 10. Form of the report on the implementation of the ESMP

### REPORT ON THE IMPLEMENTATION OF ESMP REQUIREMENTS AT THE CONSTRUCTION STAGE OF THE "IRKUTSK POLYMER PLANT"

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(company name)

for \_\_\_\_\_ quarter \_\_\_\_\_ year

((reporting period))

## **1. Development of internal regulatory documents**

In this section, specify information about internal regulatory documents, orders, etc. developed/corrected over the past quarter in terms of environmental protection, labor protection, industrial safety and the social sphere.

## **2. Audits/inspections carried out**

In this section, specify information about the audits and inspections carried out during the quarter in terms of environmental protection, labor protection, industrial safety and the social sphere.

## **3. Identified nonconformities and corrective actions taken**

In this section, specify information about nonconformities identified during audits and inspections, as well as corrective actions aimed at eliminating these nonconformities.

## **4. Accidents, incidents, emergencies**

In this section, specify information about incidents, incidents, accidents, including information about the response and elimination of consequences, as well as corrective actions.

## **5. Accidents, incidents, emergencies**

In this section, specify information about incidents, incidents, accidents, including information about the response and elimination of consequences, as well as corrective actions.

## **6. Industrial environmental control**

In this section, specify information about the results of industrial environmental control in terms of atmospheric air protection, noise exposure, wastewater management, waste management. It is mandatory to specify the characteristics of the volume of accumulation and removal of wastewater and waste.







Item No.	Name of wastewater	Accumulator	Waste-water discharge facility	Wastewater removal per day, m3																															Total, m3		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
1	Domestic Runoffs	Septic tank/waste pit	OOO "MC Vodokanal-Service" (Ust-Kut)																																		0.000
2	Industrial-rain (stormwater) wastewater	Pit/accumulator	....																																		0.000